

Comparisons of Job Characteristics

Focus Occupation: [Network and Computer Systems Administrators \(15-1071\)](#)

Associated Occupation: [Computer and Information Systems Managers \(11-3021\)](#)

[Compare Knowledge](#)

[Compare Skills](#)

[Compare Abilities](#)

[Compare Detailed Work Activities](#)

[Compare Tools and Technologies](#)

| | |
|----|--|
| << | Focus occupation element is much lower |
| < | Focus occupation element is lower |
| 0 | Focus occupation element is at a similar level |
| > | Focus occupation element is at a higher level |
| >> | Focus occupation element is at a much higher level |

Knowledge

Similarity of Focus Occupation to Associated Occupation: 83

Focus Occupation: Network and Computer Systems Administrators (15-1071)

Associated Occupation: Computer and Information Systems Managers (11-3021)

| Associated Occupation's Key Knowledge Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|--|---------------------------------|--------------------------------|---------------------------|--|
| Computers and Electronics | 8.4 | 20.0 | 21.5 | 0 Current knowledge level may be sufficient |
| Administration and Management | 8.4 | 15.7 | 11.8 | << Extensive education and/or training may be required |
| Customer and Personal Service | 11.3 | 15.7 | 7.3 | << Extensive education and/or training may be required |
| Production and Processing | 6.0 | 11.8 | 4.8 | << Extensive education and/or training may be required |
| Personnel and Human Resources | 5.6 | 11.2 | 4.7 | << Extensive education and/or training may be required |
| Telecommunications | 3.9 | 10.9 | 13.4 | > Current knowledge level is likely sufficient |
| Economics and Accounting | 4.4 | 9.7 | 3.0 | << Extensive education and/or training may be required |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Skills

Similarity of Focus Occupation to Associated Occupation: 82

Focus Occupation: Network and Computer Systems Administrators (15-1071)

Associated Occupation: Computer and Information Systems Managers (11-3021)

| Associated Occupation's Key Skills Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation |
|---|---------------------------------|--------------------------------|---------------------------|---|
| Monitoring | 9.9 | 13.5 | 11.7 | < A higher skill level may be required |
| Systems Evaluation | 6.4 | 12.2 | 11.0 | < A higher skill level may be required |
| Management of Personnel Resources | 6.9 | 11.1 | 8.4 | << Extensive development of skills in this area may be required |
| Systems Analysis | 6.5 | 10.8 | 11.1 | 0 Current skill level may be sufficient |

| | | | | | |
|-----------------------------------|-----|------|-----|----|--|
| Negotiation | 6.8 | 10.2 | 7.8 | << | Extensive development of skills in this area may be required |
| Operations Analysis | 5.0 | 9.6 | 8.3 | < | A higher skill level may be required |
| Management of Financial Resources | 3.3 | 8.8 | 4.3 | << | Extensive development of skills in this area may be required |
| Management of Material Resources | 3.7 | 8.5 | 5.0 | << | Extensive development of skills in this area may be required |
| Programming | 2.2 | 6.9 | 8.5 | > | Skill level is likely sufficient |
| Technology Design | 2.6 | 5.9 | 6.5 | > | Skill level is likely sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Abilities | | Similarity of Focus Occupation to Associated Occupation: 98 | | | |
|---|---------------------------------|---|---------------------------|--------------------------------|---|
| Focus Occupation: Network and Computer Systems Administrators (15-1071) Associated Occupation: Computer and Information Systems Managers (11-3021) | | | | | |
| Associated Occupation's Key Abilities Elements | Average Rating, All Occupations | Associated Occupation's Rating | Focus Occupation's Rating | Evaluation of Focus Occupation | |
| Written Comprehension | 11.0 | 15.1 | 13.2 | < | Some improvement in abilities may be required |
| Written Expression | 9.8 | 13.5 | 11.0 | < | Some improvement in abilities may be required |
| Deductive Reasoning | 10.6 | 13.2 | 12.7 | 0 | Current ability level may be sufficient |
| Inductive Reasoning | 10.2 | 13.2 | 12.2 | 0 | Current ability level may be sufficient |
| Information Ordering | 9.9 | 12.3 | 11.8 | 0 | Current ability level may be sufficient |
| Fluency of Ideas | 7.6 | 10.1 | 10.1 | 0 | Current ability level may be sufficient |
| Originality | 7.6 | 10.1 | 9.1 | < | Some improvement in abilities may be required |
| Memorization | 5.6 | 7.3 | 7.3 | 0 | Current ability level may be sufficient |

The maximum possible rating is 25.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

| Activities that Both Occupations Have in Common | | Similarity of Focus Occupation to Associated Occupation: 86 |
|---|-------------------------|---|
| Focus Occupation: Network and Computer Systems Administrators (15-1071) Associated Occupation: Computer and Information Systems Managers (11-3021) | | |
| Work Activities | Exclusivity of Activity | |
| Develop policies, procedures, methods, or standards | 21 | |
| Evaluate computer system user requests or requirements | 81 | |
| Follow data security procedures | 77 | |
| Plan computer security measures | 95 | |
| Revise or correct errors in computer programs, software, or systems | 85 | |
| Test computer programs or systems | 78 | |

Not all positions in these occupations will necessarily perform all of the listed activities. The exclusivity rating is an indication of how unique the activity is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations engage in that activity.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.

Tools and Technologies that Both Occupations Have in Common

Similarity of Focus
Occupation to Associated
Occupation: 86

Focus Occupation: Network and Computer Systems Administrators (15-1071)
Associated Occupation: Computer and Information Systems Managers (11-3021)

| Tools and Technologies | Exclusivity |
|--|-------------|
| Business function specific software | 1 |
| Computers | 1 |
| Content authoring and editing software | 1 |
| Cutting and crimping and punching tools | 3 |
| Data management and query software | 1 |
| Development software | 4 |
| Electronic and communication measuring and testing instruments | 14 |
| Finance accounting and enterprise resource planning ERP software | 2 |
| Industry specific software | 1 |
| Information exchange software | 1 |
| Media storage devices | 21 |
| Network applications software | 1 |
| Network management software | 37 |
| Network service equipment | 47 |
| Networking software | 21 |
| Operating environment software | 12 |
| Security and protection software | 30 |
| Tool kits | 62 |
| Utility and device driver software | 17 |
| Wrenches and drivers | 2 |

Not all positions in these occupations will necessarily use all of the listed tools and technologies. The exclusivity rating is an indication of how unique the tool or technology is amongst all occupations. The maximum rating is 100. High scores indicate that only a small number of occupations use that tool or technology.

Source: Alaska Department of Labor and Workforce Development, Research and Analysis Section analysis of O*NET (Occupation Information Network) data.